Tools And Resources

Group Make Up

Organization	Quantity
NAVY	3
USMC	9*
USAF	5
Army	2
DoD	3
Other	3*

*=Election Tampering Evident

- Reuse and Repositories & Visibility & Discovery
  - Who pays to keep the content current (incentive/funded)
  - Repository Access
  - Too many repositories/not focused
    - User Groups possible solution
    - Contractual wording for the model
    - Trusted Sources
    - Tracking of User Experience
  - Technical Evolution
  - Industry may not be in a better position
  - Need contractual language to identify to use rights
  - PM Responsible for deposit
    - Policy
  - If model isn't visible shouldn't be funded/supported
  - Funding for specific reuse
  - More communication and interaction
    - Forums

- Methodology
  - Data IT developers need …
  - Professional M&S Developers (CMM)
  - Education for M&S Professionals (Developers and Users)
  - Repeatable
  - Easily Understood
  - Capability/Performance Based
- Approach
  - Should be requirements driven
  - Tailorable to the requirements
  - Framework of models rather than one model (multiple simulations)
  - Fit the tool to the problem not the problem to tool
  - Scope the problem
  - Matching tool to problem and data issue
  - Combination of virtual and live/interactive approaches - some things cannot be simulated

- Cost Estimation of M&S
  - Standardizing CDRs
  - Cost over program life cycle
  - Dual Analyses
  - Need for parametric cost models that integrate with operational representations/models
  - Cost Avoidance/ROI/Savings

Back Up

Bucket List

- Methodology
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- Standard Tools and Registry
  - How much standardization do we need?
  - Standardization of Terminology, Interfaces, Data Standards, Metrics
  - Standard tools hinder innovation
  - What standards are mandatory
  - Accreditation Standards for use to specified standard

- Process Changes
  - Centers of Excellence needs to be funded @ OSD
- Level of Analyses
- Metrics Standardization across services and industry
  - Requirements Driven
  - Tailor to Requirements
- Data Accuracy, Validity, Collection Issues, Availability
  - Institutional Changes
  - Fix Collection System
    - Automation
    - Right Data has to be collected
  - Data Context
  - Data Rights are appropriately purchased
  - Classification
  - Collaborative Environment
  - Authoritative Data Sources
- Model and Simulation Integration
  - Micro Modular Architecture
  - Cross Resolution Models Aggregation/Deaggregation
  - Formal versus approach level of integration
  - Do totally integrated models make sense?
- Documentation and VV&A
  - Levels of documentation and VV&A
    - Cost to VV&A should not cost more than the whole analysis especially for 1 time analysis
  - Few tools
  - Lack of understanding
  - Written for a different class of models

- Cost Estimation of M&S
  - Standardizing CDRs
  - Cost over program life cycle
  - Dual Analyses
  - Need for parametric cost models that integrate with operational representations/models
  - Cost Avoidance/ROI/Savings
- Interoperability
  - Various levels of interoperability and integration
- User Training
- Programmatic Input
- Other